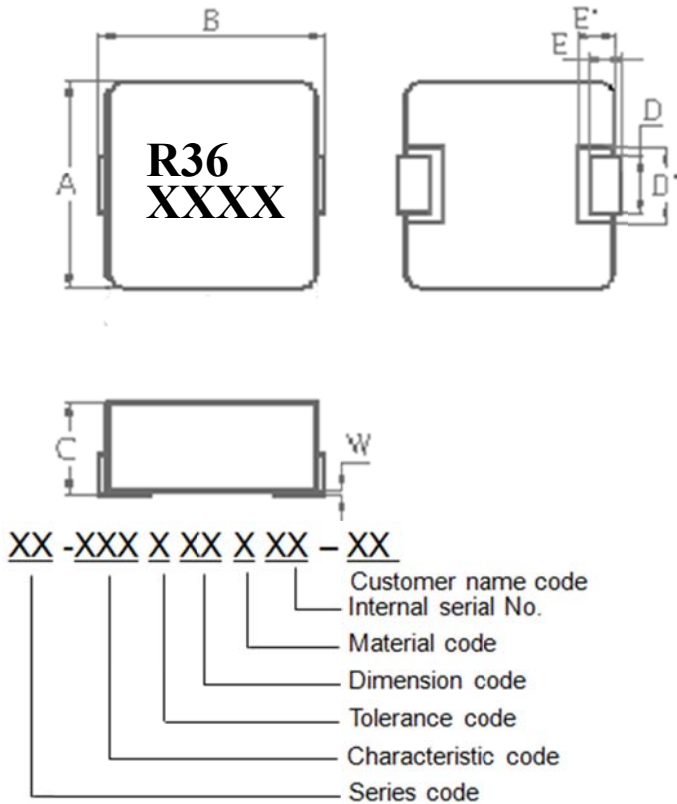


SMD Alloy Molding Power Inductor EM-78V Series (7640)

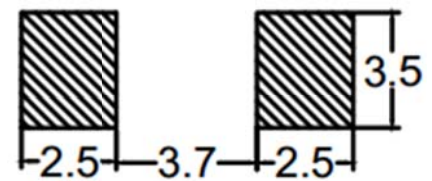
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)	
	R20	R36/R40/100
A:	7.6±0.3	
B:	8.5MAX	
C:	4.0MAX	
E:	1.6±0.5	
E':	2.0±0.1	
D :	3.0±0.5	3.0±0.3
D' :	4.5±0.2	
W:	0.15+0	



SUGGEST PCB PATTERN

2. SPECIFICATIONS

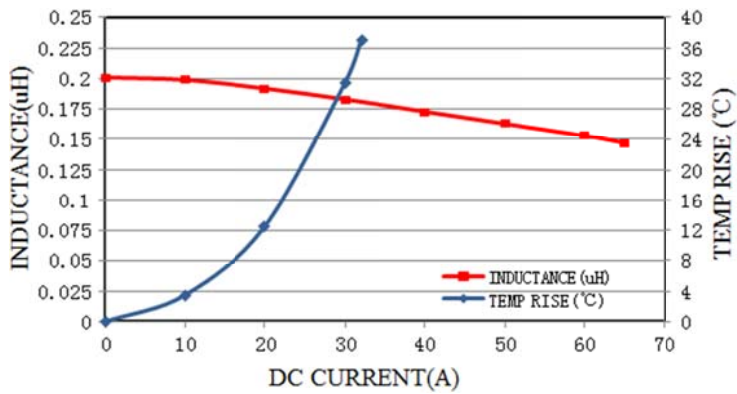
Part Number	Inductance L0(uH)± 20%@0A	I _{rms} (A) typ	I _{sat} (A) typ	DCR(mΩ) @25°C
EM-20BM78V01	0.20	32	65	0.94±7%
EM-36BM78V02	0.36	25	50	1.85±5%
EM-40BM78V01	0.40	27	35	1.6±10%
EM-100M78V01	10.00	5.2	11	60max

Note:

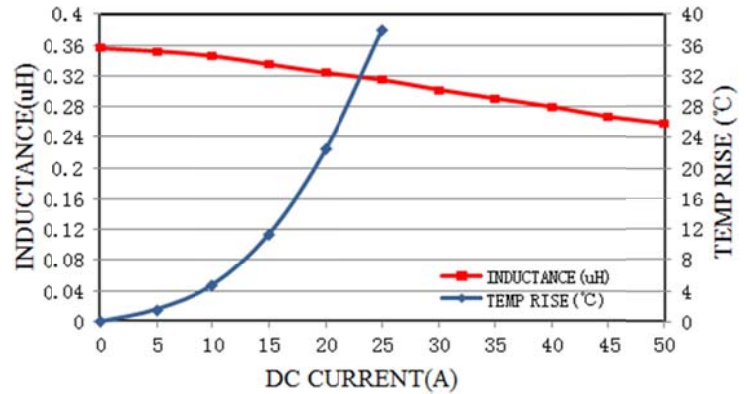
- Test frequency: L: 100 KHz /1.0v.
- All test data referenced to 25°C ambient.
- Temperature Rise Current: ΔT 40°C approximately at I_{rms}.
- Saturation Rated Current: Inductance drop approximately 30% at I_{sat}.
- Storage temp.: -40°C ~ 85°C.
- Storage R.H: 20% ~ 75%.
- Operating temp.: -55°C~ +125°C.
- Special inquiries besides the above common used types can be met on your requirement.

3. DC Bias Characteristics (Typical)

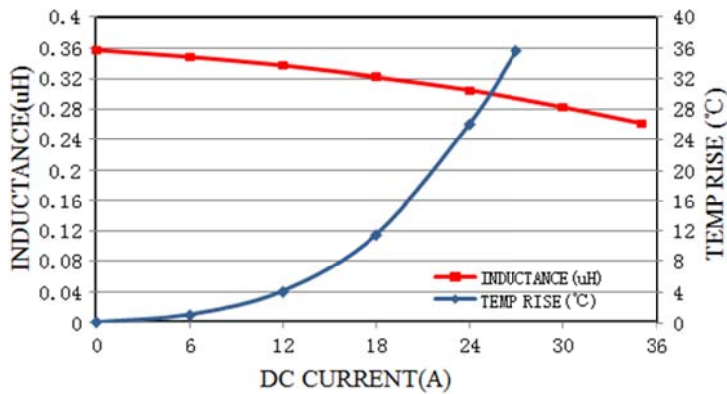
EM-20BM78V01



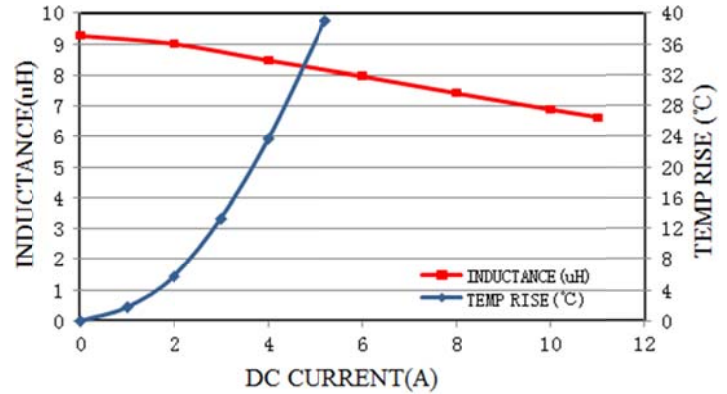
EM-36BM78V02



EM-40BM78V01

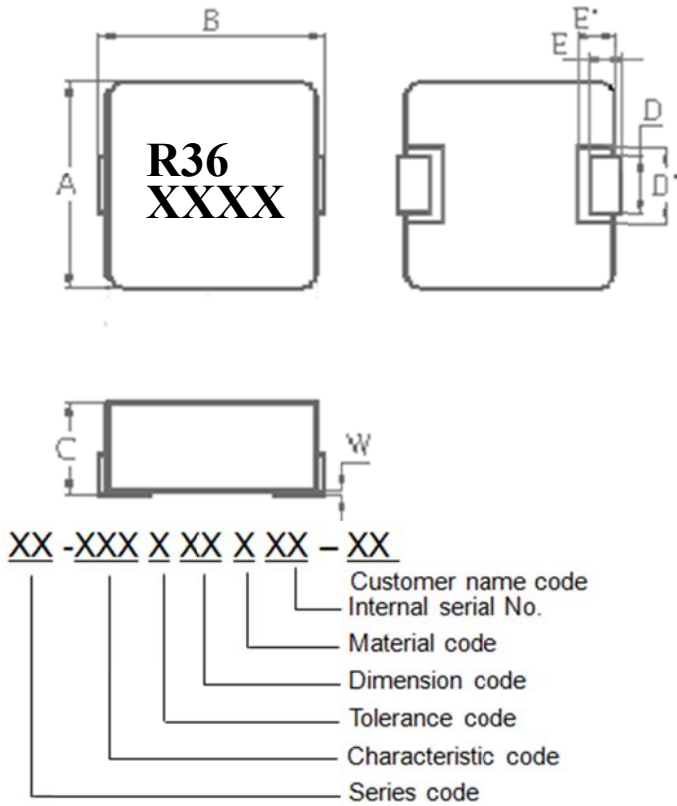


EM-100M78V01



SMD Alloy Molding Power Inductor EM-75V Series (7650)

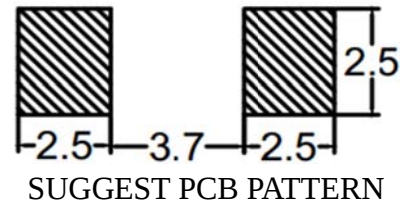
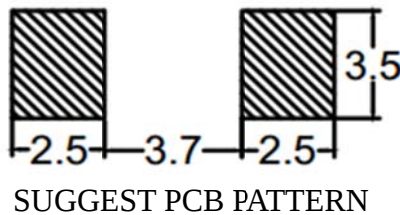
1. CONFIGURATIONS & DIMENSIONS



TOLERANCE CODE:

J:±5% K:±10% L:±15%
M:±20% N:±30%

Code	Dimensions(mm)	
	R22/R36/R47/3R3/4R7/ 100/150	1R0
A:	7.6±0.3	
B:	8.5MAX	
C:	5.0MAX	
E:	1.6±0.5	
E':	2.0±0.1	
D :	3.0±0.3	2.2±0.3
D' :	4.5±0.2	
W:	0.15±0	



2. SPECIFICATIONS

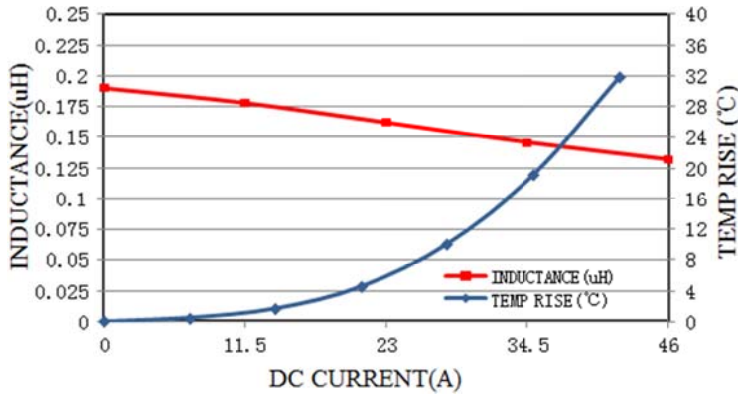
Part Number	Inductance L0(uH)± 20%@0A	Irms(A) typ	Isat(A) typ	DCR(mΩ) @25℃
EM-22BM75V01	0.22	42	46	0.8max
EM-36BM75V01	0.36	30	38	1.28±10%
EM-47BM75V01	0.47	30	35	1.36±10%
EM-10AM75V01	1.00	16.5	19	3.75±5%
EM-33AM75V01	3.30	5.5	5.5	14.3±10%
EM-47AM75V01	4.70	5	5	17.8±10%
EM-100M75V02	10.00	5	4.5	27±10%
EM-150M75V01	15.00	4	3.5	41±10%

Note:

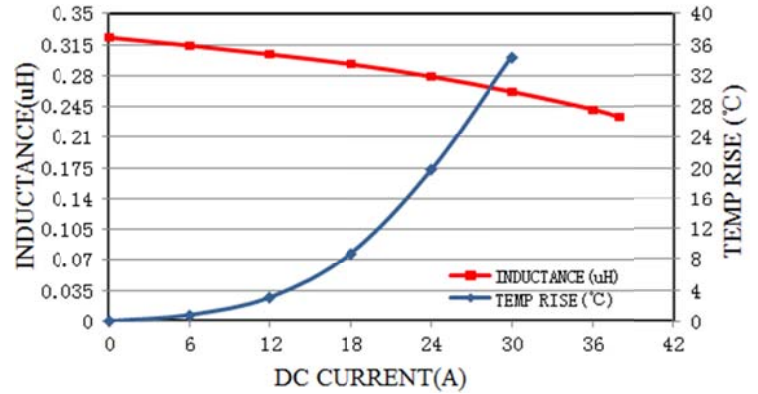
1. Test frequency: L: 100 KHz /1.0v.
2. All test data referenced to 25℃ ambient.
3. Temperature Rise Current: ΔT 40℃ approximately at Irms.
4. Saturation Rated Current: Inductance drop approximately 30% at Isat.
5. Storage temp.: -40℃ ~ 85℃.
6. Storage R.H: 20% ~ 75%.
7. Operating temp.: -55℃~ +125℃.
8. Special inquiries besides the above common used types can be met on your requirement.

3. DC Bias Characteristics (Typical)

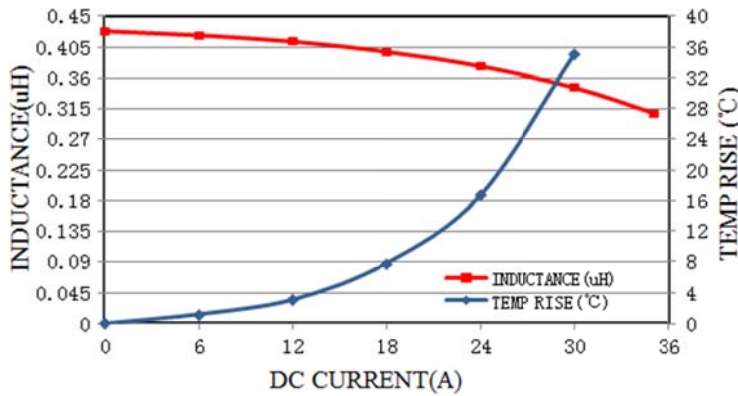
EM-22BM75V01



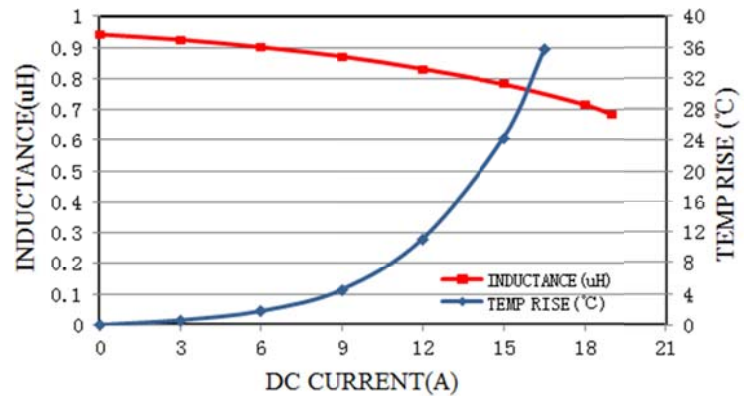
EM-36BM75V01



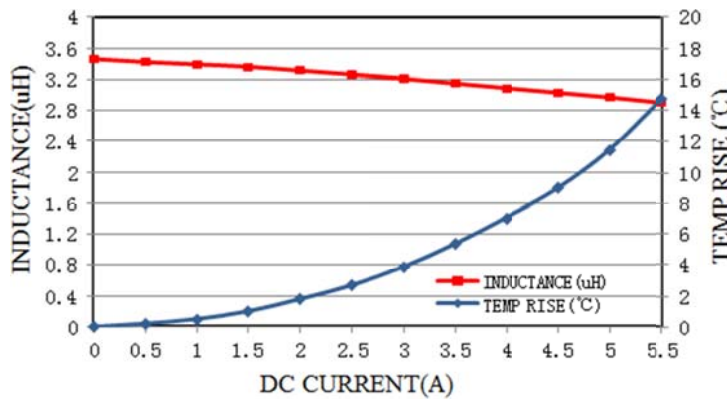
EM-47BM75V01



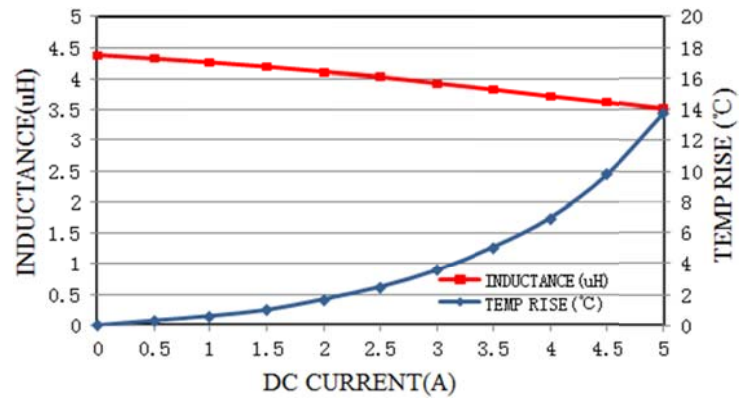
EM-10AM75V01



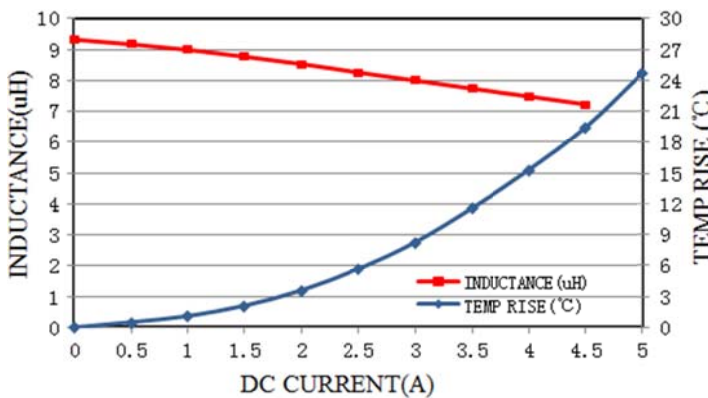
EM-33AM75V01



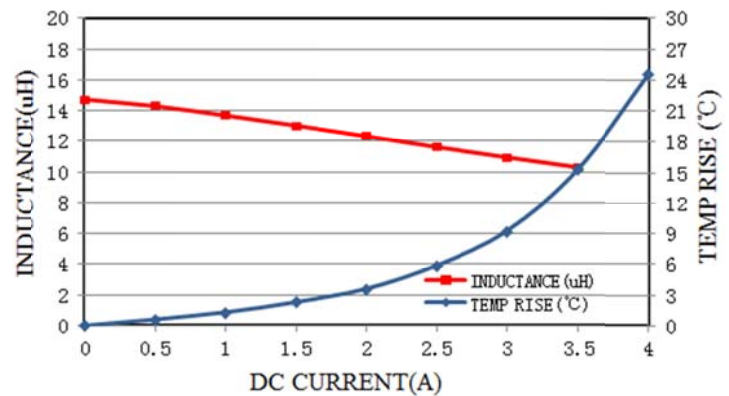
EM-47AM75V01

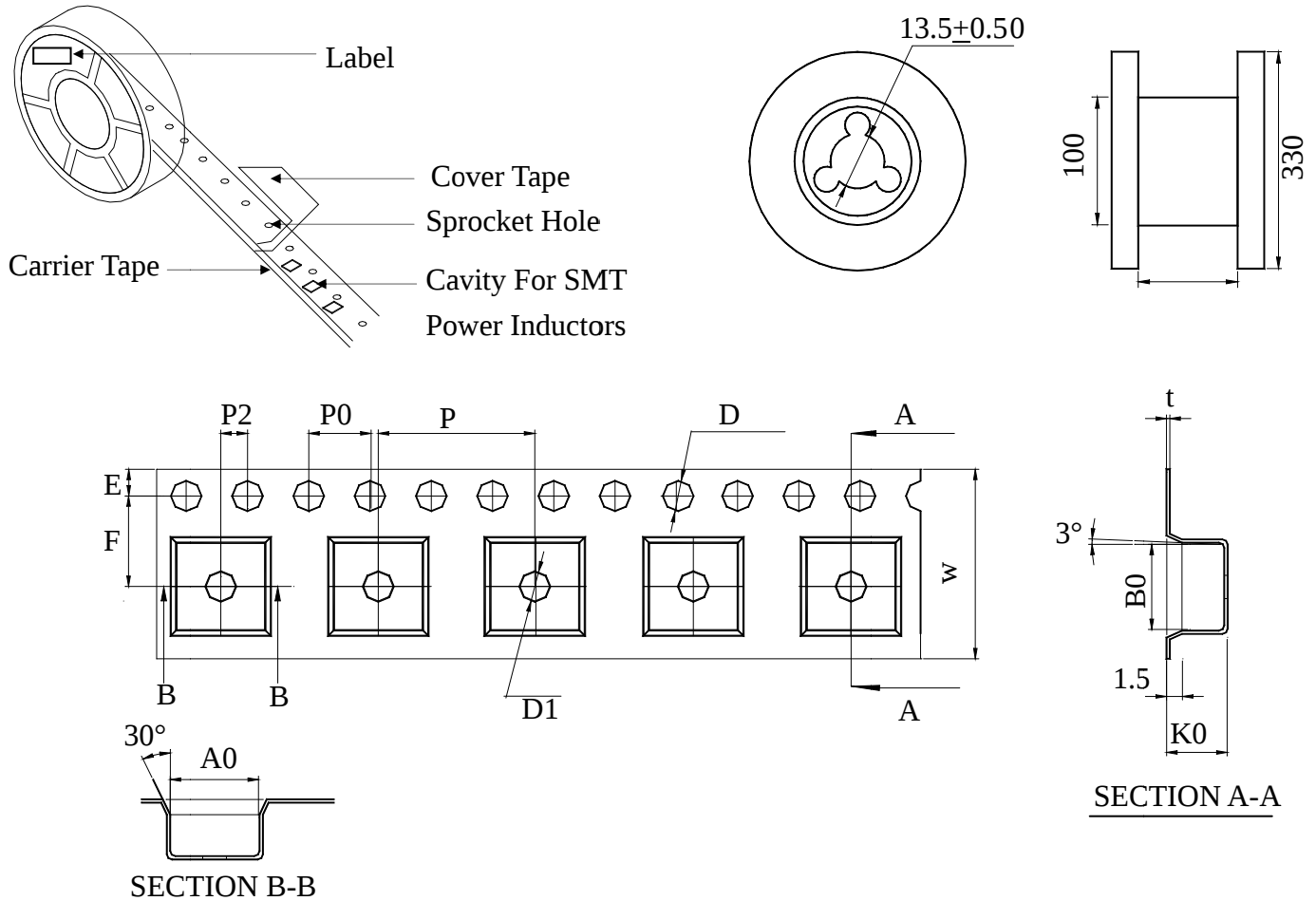


EM-100M75V02



EM-150M75V01



PACKAGING SPECIFICATION FOR SMD POWER INDUCTORS (unit: mm)


	W	P	E	F	A0	B0	K0	t
7640/ EM-78V	24.0+0.10/-0.30	12.0±0.10	1.75±0.10	11.50±0.10	8.0±0.10	8.6±0.10	4.4±0.10	0.4±0.05
7650/ EM-75V	24.0+0.10/-0.30	12.0±0.10	1.75±0.10	11.50±0.10	7.9±0.10	8.8±0.10	5.5±0.10	0.4±0.05

	Chip / Reel
7640/EM-78V	1000 pcs
7650/EM-75V	500 pcs